Application No.: 10/802,205
Office Action dated: August 22, 2006
Response to Office Action dated: November 7, 2006

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In the Specification:

Please amend paragraph [0024] as follows:

The FIGURE shows schematically and so far as is necessary for the understanding of the invention on the one hand the hardware 1 and the software 2 or the control program of the Wire Bonder and, on the other hand, with broken or chain dot arrows the signals and their paths that control the processes described above. The electrical power is supplied via a line 3 whereby a sensor 4 monitors the voltage on the line 3. The power supply module is designated with the reference numeral 5 that on failure of the external power supply takes over the power supply of the Wire Bonder for the predetermined ~~period of time~~, period of time t_1. The reference numeral 6 designates a first power module for the drive 7 of the carriage of the bondhead. The reference numeral 8 designates a second power module for the drive 9 of the transport system for transporting the substrates in x direction. The two power modules 6 and 8 each contain a switch 11 or 12 controlled from a common timer 10. The switches 11 and 12 are preferably located at the input of the respective power module 6 or 8, so that the supply of electrical power to the power module 6 or 8 is interrupted when the respective switch 11 or 12 is open. Alternatively the switches 11 and 12 could also be located at the output of the respective power module 6 or 8, so that the supply of electrical power to the drive 7 or 9, respectively, is interrupted when the respective switch 11 or 12 is open. The working area of the bondhead is protected against inadvertent access by the light curtain 13. The supply of vacuum from the external vacuum supply takes place via a line 14 whereby a vacuum tank 15 is arranged in the line 14. The vacuum tank 15 has a valve 16 on the side facing towards the external vacuum supply. The strength of the vacuum at the inlet of the vacuum tank 15 is monitored by means of a sensor 17. A further sensor 19 monitors the strength of the vacuum in the area of the bondhead where the vacuum is required for preloading the air bearings. The

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emergency switch is designated with the reference numeral 18. It is of course possible that not only one single emergency switch is present but that several emergency switches are present. The supply of compressed air takes place via a supply line 20. A pressure sensor 21 monitors the pressure in the supply line 20. In the example, the pressure sensor 21 is arranged around one metre away from the air bearings of the bondhead. The volume of the supply line 20' between the pressure sensor 21 and the air bearings of the bondhead serves as a compressed air reservoir that on failure of the compressed air supply suffices to be able to complete the current bond cycle.

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